

What we claim is:

1. A composition of matter comprising Pseudomonas aeroginosa strain CHL004 growing on a solid matrix wherein said matrix is in an environment in the presence of sufficient phosphate to provide at least one stoichiometric equivalent amount of phosphate to lead.
2. A composition of claim 1 wherein the support is a synthetic polymer.
3. A composition of claim 11 wherein the support is activated carbon.
4. A composition of matter comprising Pseudomonas aeroginosa strain CHL004 growing on a solid matrix wherein said matrix also contains iron.
5. A composition of claim 4 in an environment containing arsenic.
6. A composition of claim 4 in an environment containing cadmium.